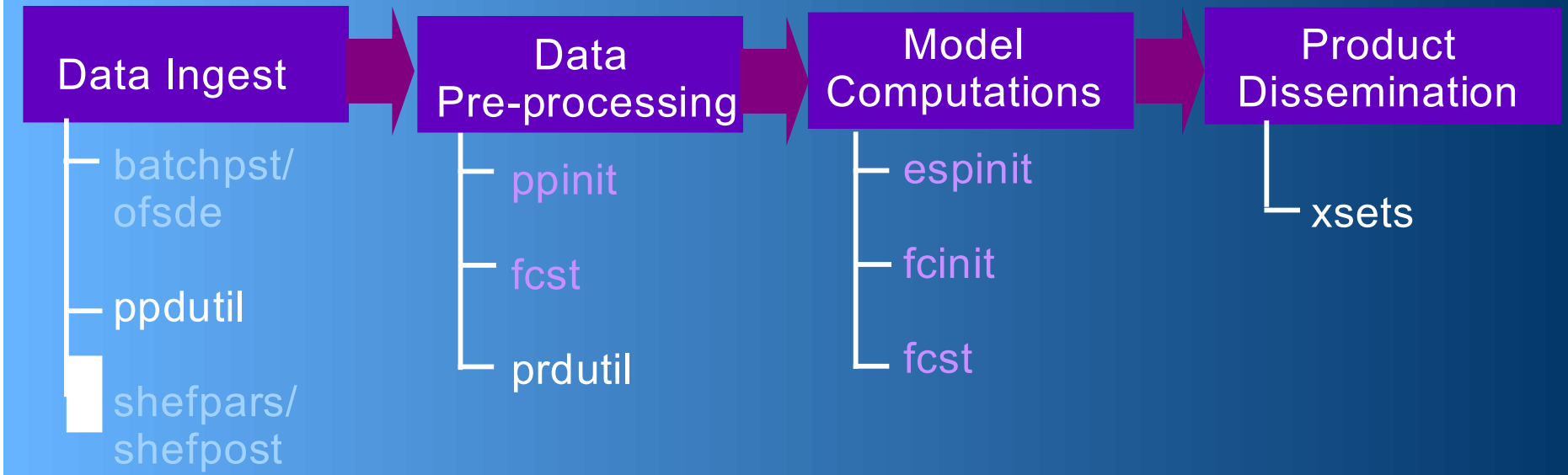
OFS Programs

OFS uses a series of programs to manage the river forecasting process



OFS Programs

Summary of Functions

- batchpst: posts data to preprocessor database (PPDB)
- espinit: defines the time series and analysis needed to run ESP
- fcinit: defines rating curves, segments, forecast groups and carryover groups
- fcst: defines techniques, functions and procedures; runs the preprocessor and forecasting functions
- filecrat: creates an empty, initialized set of NWSRFS OFS database files
- filesize: calculates the required size for NWSRFS OFS database files

OFS Programs

Summary of Functions, continued

- goesdb: creates GOES.CONTROL file used by ppinit. File not used on workstations but must exist.
- ofsde: extracts data from IHFS Informix database and writes it to a batchpst input file.
- ppdutil: manages and displays data in the PPDB
- ppinit: defines users, stations, basins, and areas; runs NETWORK and ORDER, and writes information to PPPDB, PPDB, PDB, and FCDB
- prdutil: manages and displays data in the PDB

OFS Programs

Summary of Functions, continued

- reorder: copies all non-obsolete records into an initialized and empty set of files
- sasmdb: creates SASM.CONTROL file used by ppinit. File not used on workstations but must exist.
- shefpars: decodes shef messages in the ofs shef directory and creates the *shefout* file
- shefpost: reads the shefout file and posts data to the fs5files

OFS Implementation Steps

- Create files
  - filesize, filecrat, and prdutil DEFTYPE command
- Create global files
  - goesdb, sasmdb, fcst
- Define general user parameters
  - ppinit - @DEFINE USER
- Define stations
  - ppinit - @DEFINE STATIONS
- Run network command
  - ppinit - @NETWORK
- Define basin boundaries
  - ppinit - @DEFINE BASIN

OFS Implementation Steps (cont.)

- Define areas for hydromet computations
  - ppinit - @DEFINE AREA
- Define rating curves
  - fcinit - DEF-RC
- Define segments
  - fcinit - SEGDEF
- Define forecast groups
  - fcinit - FGDEF
- Define carryover groups
  - fcinit - CGDEF
- Post data to the Preprocessor Database
  - ofsde/batchpst, shefpars/shefpost

OFS Implementation Steps (cont.)

- Run preprocessor functions
  - fcst - @COMPUTE
- Run forecast function
  - fcst - @COMPUTE